

REMARKS

Claims 1-22 are pending in this application.

In amended Figures 1, 3, and 4, a label of "Prior Art" has been added for FIG. 1, boxed elements have been provided with descriptive labels, omitted element 24 (formerly element 25) has been added, and distinct element numerals have replaced identical element numerals 24, 230 being used for different box elements.

Claims 1, 9, 17, and 20 have been amended in accordance with 35 U.S.C. § 132. Support for the amendments may be found throughout the specification including, for example, page 4, lines 15-18, page 5, lines 15-19, page 8, lines 11-15, and page 9, lines 8-26. Also, Claims 2-8, and 10-16 have been amended. All of these amendments are non-narrowing amendments and therefore the claims are entitled to the full range of equivalents in accordance with well-known U.S. Patent case law.

From the Action of December 23, 2003, Claims 1-2, 7-10, and 15-16 stood rejected under 35 U.S.C. § 102(e) as being unpatentable over Yoshikazu et al. ("Yoshikazu") (EP 0836304 A2). Applicant respectfully traverses these rejections, and requests allowance thereof in the pending application for the following reasons.

The Claims are Patentable Over the Cited References

Claims 1-2, 7-10, and 15-16 are not anticipated by Yoshikazu

Claims 1-2, 7-10, and 15-16 stood rejected under § 102(e) in

view of Yoshikazu. Yoshikazu fails to disclose the features recited in these claims as amended such as estimating transmitted modulation signals by demodulating sub-carriers for a block of samples under consideration, wherein said estimation step comprising correcting the changes in position of an analysis window with respect to the transmitted signal without slaving said receiver sampling frequency.

Yoshikazu fails to disclose the recited features. In direct contrast, Yoshikazu solely discloses using the prior art method (as disclosed in the present application) of correcting for the transmitter/receiver sampling frequency deviation by slaving the receiver sampling frequency to the transmitter sampling frequency by changing the receiver sampling frequency to match based on a feedback loop that continually measures the deviation error. (See Figure 12; page 11, lines 20-22, 32-36; page 15, lines 30-32; page 16, lines 17-24). Specifically, Yoshikazu states that "...an object of the present invention to detect an error amount of sampling frequency...and to perform control to make the error amount zero...detecting the frequency error of the sampling pulse on the basis of the change amount of barycentric position, and controlling the frequency of the sampling pulse to make the error zero..." (see page 11, lines 20-22, 35-36).

Throughout the disclosure, Yoshikazu expressly discloses using a feedback loop to change the receiver sampling frequency to reduce

the deviation error to zero in contrast to the recited feature of estimating the transmitted modulation signals by correcting the changes without slaving said receiver sampling frequency. Changing the receiver sampling frequency using a feedback loop to eliminate the deviation between transmitter/receiver sampling frequency for estimating transmitted modulation signals as disclosed by Yoshikazu is significantly different from estimating transmitted modulation signals without slaving said receiver sampling frequency as recited.

Yoshikazu fails to disclose estimating transmitted modulation signals by demodulating sub-carriers for a block of samples under consideration, wherein said estimation step comprising correcting the changes in position of an analysis window with respect to the transmitted signal without slaving said receiver sampling frequency as recited making the claimed invention patentably distinct from the cited reference.

Conclusion

In view of the amendments and remarks submitted above, it is respectfully submitted that all of the remaining claims are allowable and a Notice of Allowance is earnestly solicited.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact Clint Gerdine (Reg. No. 41,035) at the

telephone number of the undersigned below, to conduct an interview in an effort to expedite prosecution in connection with the present application.

Applicants respectfully petition under the provisions of 37 C.F.R. § 1.136(a) and § 1.17 for a two-month extension of time in which to respond to the Examiner's Office Action. The Extension of time fee in the amount of \$430.00 is attached hereto.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

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Enclosures: Formal Drawings